

Supplemental Response

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Serial No.: 09/497,967

Confirmation No.: 8124

Filed: February 4, 2000

For: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF ICHTHYOPHTHIRIUS**Remarks**

The Office Action mailed 9 April 2003 has been received and reviewed. Applicants have filed an Amendment and Response on 8 October 2003.

Information Disclosure Statement

Applicants submitted an Information Disclosure Statement on June 16, 2000, and the Patent Information Retrieval System indicates that the Information Disclosure Statement was received by the United States Patent and Trademark Office (Exhibit A, 2 pages). However, Applicants have not received an initialed copy of the 1449 forms indicating that the Examiner has considered the listed documents.

For the Examiner's convenience, Applicants are attaching a courtesy copy of the 1449 forms submitted with the Information Disclosure Statement on June 16, 2001 (Exhibit B, 11 pgs). Also included is a copy of the return-receipt stamped postcard, indicating that the U.S. Patent and Trademark Office received the Information Disclosure Statement on June 20, 2000 (Exhibit C, 1 pg). Courtesy copies of these 1449 forms were faxed to the previous Examiner (I. Fields) on December 11, 2001, and Examiner Fields had indicated that she was in possession of the documents listed on these 1449 forms.

Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication. The Examiner is asked to contact Applicants' Representative if replacement copies of these documents should prove necessary

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Summary

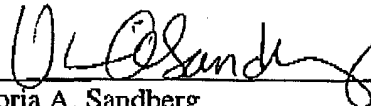
The Examiner is invited to contact Applicants' Representatives, at the below-listed telephone number, if it is believed that prosecution of this application may be assisted thereby.

Respectfully submitted for
Clark et al.

By
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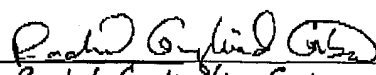
Date

Nov 24, 2003

By: 
Victoria A. Sandberg
Reg. No. 41,287
Direct Dial (612)305-1226

CERTIFICATE UNDER 37 CFR §1.8:

The undersigned hereby certifies that the Transmittal Letter and the paper(s), as described hereinabove, are being transmitted by facsimile in accordance with 37 CFR §1.6(d) to the Patent and Trademark Office, addressed to Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 24th day of November, 2003, at 4:05 p.m. (Central Time).

By: 
Name: Rachel Gaylini-Gabau

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Exhibit A

United States Patent and Trademark Office

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PATENT APPLICATION INFORMATION RETRIEVAL

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Search results for application number: 09/497,967			
Application Number: 09/497,967	Customer Number: 26813		
Filing or 371(c) Date: 02-04-2000	Status: Response to Non-Final Office Action Entered and Forwarded to Examiner		
Application Type: Utility	Status Date: 11-05-2003		
Examiner Name: NAVARRO, ALBERT MARK	Location: ELECTRONIC		
Group Art Unit: 1645	Location Date: 10-20-2003		
Confirmation Number: 8124	Earliest Publication No: -		
Attorney Docket Number: 235.00170101	Earliest Publication Date: -		
Class/ Sub-Class: 424/191.1	Patent Number: -		
First Named Inventor: Theodore Clark, Ithaca, NY	Issue Date of Patent: -		
Title Of Invention: Diagnostic and protective antigen gene sequences of ichthyophthirius			


Image File Wrapper		Foreign Priority	Continuity Data	Publication Review
File Contents History				
Number	Date	Contents Description		
36	11-05-2003	Date Forwarded to Examiner		
35	10-08-2003	Response after Non-Final Action		
34	10-08-2003	Request for Extension of Time - Granted		
33	04-09-2003	Mail Non-Final Rejection		
32	04-07-2003	Non-Final Rejection		
31	01-31-2003	Date Forward d to Examiner		

11/24/2003 16:07 FAX 6123051228

MUETING RAASCH GEBHARDT

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11/20/2003



30	06-03-2002	Response after Non-Final Act
29	06-03-2002	Request for Extension of Time - Granted
28	04-17-2002	Examiner Interview Summary Record (PTOL - 413)
27	01-17-2002	Information Disclosure Statement (IDS) Filed
26	01-02-2002	Mail Non-Final Rejection
25	12-31-2001	Non-Final Rejection
24	01-31-2003	Date Forwarded to Examiner
23	08-06-2001	Response to a Letter to Comply with the Sequence Rules
22	08-06-2001	Request for Extension of Time - Granted
20	01-09-2003	Case Docketed to Examiner in GAU
19	12-16-2002	Case Docketed to Examiner in GAU
12	07-02-2001	Mail Letter Requiring CRF (Unreadable, Non-Compliant, Not Submitted)
11	07-02-2001	CRF Diskette Unreadable / Did Not Comply / Required but Not Submitted
10	06-20-2000	Information Disclosure Statement (IDS) Filed
9	06-20-2000	Preliminary Amendment
8	07-18-2000	Case Docketed to Examiner in GAU
7	07-10-2000	Application Dispatched from CIPE
6	07-10-2000	Application Is Now Complete
5	04-24-2000	Incomplete Application under Rule 53(b) - Filing Date Assigned
4	04-24-2000	Correspondence Address Change
3	03-02-2000	FW Scan & PACR Auto Security Review
2	02-10-2000	Preexamination Location Change
1	02-10-2000	Initial Exam Team met

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Exhibit B

OMB No. 0651-0011

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INFORMATION DISCLOSURE STATEMENT		Atty. Docket No.: 235.0017 0101		Serial No.: 09/497,967			
		Applicant(s): Ted CLARK et al.					
		Filing Date: 4 February 2000		Group: 1646			
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
		4,309,416	01/05/82	Gratzek et al.			
		5,661,032	08/26/97	Miller et al.			
		5,695,965	12/09/97	Stuart et al.			
		5,780,448	04/17/98	Davis			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	SubClass	Translation Yes No
		WO 81/00812	04/02/81	PCT			
		WO 90/14428	11/29/90	PCT			
		WO 98/01572	01/15/98	PCT (with English language abstract)			
OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)							
		Alexander, "A New Immobilization Test for <i>Tetrahymena pyriformis</i> ," <u>Trans. Amer. Microsc. Soc.</u> , 86(4):421-427 (1967).					
		Al-Qahtani et al., "A 5' untranslated region which directs accurate and robust translation by prokaryotic and mammalian ribosomes," <u>Nuc. Acids Res.</u> , 24(6):1173-1174 (1996).					
		Areerat, <u>The Immune Response of Channel Catfish, <i>Ictalurus punctatus</i> (Rafinesque), to <i>Ichthyophthirius multifiliis</i></u> , Master's thesis, Auburn University, 47 pages (1974).					
		Berg et al., "The Galvanization of Biology: A Growing Appreciation for the Roles of Zinc," <u>Science</u> , 271:1081-1085 (1996).					
		Blomberg et al., "Regulatory Sequences for the Amplification and Replication of the Ribosomal DNA Minichromosome in <i>Tetrahymena thermophila</i> ," <u>Mol. Cell. Biol.</u> , 17(12):7237-7247 (1997).					
		Bolduc et al., " β -Tubulin mutants of the unicellular green alga <i>Chlamydomonas reinhardtii</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 85(1):131-135 (1988).					
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INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 235.0017 0101	Serial No.: 09/497,967
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		Brosius et al., "Gene Organization and Primary Structure of a Ribosomal RNA Operon form <i>Escherichia coli</i> ," <u>J. Mol. Biol.</u> , 148(2):107-127 (1981).
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		Brunk, "Ciliates display promise for foreign gene expression," <u>Nature Biotechnology</u> , 17:424-425 (May, 1999).
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		Caron et al., "Molecular Basis of Surface Antigen Variation in <i>Paramecia</i> ," <u>Ann. Rev. Microbiol.</u> , 43:23-42 (1989).
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		Clark et al., "Differential Expression of Membrane Antigen Genes in <i>I. Multifiliis</i> , a Protozoan Pathogen of Fish," Abstract and Poster, Annual Meeting on Molecular Parasitology, Woods Hole, MA, September 9-12, 7 pages (1990).
		Clark et al., "Developmental expression of surface antigen genes in the parasitic ciliate <i>Ichthyophthirius multifiliis</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 89:6363-6367 (1992).
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		Clark et al., "Surface antigen cross-linking triggers forced exit of a protozoan parasite from its host," <u>Proc. Natl. Acad. Sci. USA</u> , 93(13):6825-6829 (1996).
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		Clark, "Molecular Approaches to the Control of <i>Ichthyophthirius</i> Infection," Abstract, Grant for Oct. 25, 1997 through June 30, 2002, Cooperating Schools of Veterinary Medicine GEOV, proj. No. NYCV-433-391 (Available on-line on or before July 19, 1998).
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		Cupples et al., "Isolation and characterization of the actin gene from <i>Tetrahymena thermophila</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 83(14):5160-5164 (1986).
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	Dickerson et al., " <i>Ichthyophthirius multifiliis</i> Has Membrane-Associated Immobilization Antigens," <u>J. Protozool.</u> , <u>36</u> (2):159-164 (1989).
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		Gaertig et al., "High frequency vector-mediated transformation and gene replacement in <i>Tetrahymena</i> ," <u>Nuc. Acids Res.</u> , 22(24):5391-5398 (1994).
		Gaertig et al., "Acetylation of Lysine 40 in α -tubulin is Not Essential in <i>Tetrahymena thermophila</i> ," <u>J. Cell. Biol.</u> , 129(5):1301-1310 (1995).
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		Gower et al., "Alternative Splicing Generates a Secreted Form of N-CAM in Muscle and Brain," <u>Cell</u> , 55(6):955-964 (1988).
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	Haddad et al., "Analysis of exocytosis mutants indicates close coupling between regulated secretion and transcription activation in <i>Tetrahymena</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , <u>94</u> (20):10675-10680 (1997).
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	Krug et al., "First-Strand cDNA Synthesis Primed with Oligo(dT)," <u>Meth. Enzymol.</u> , 152:316-325 (1987).
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Applicant(s): Ted CLARK et al.
Serial No.: 09/497,967
Filed: 4 February 2000
Title: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF ICHTHYOPHITHIRUS

Enclosed: A Preliminary Amendment (4 pgs); an Information Disclosure Statement (2 pgs); 1449 forms (11 pgs); copies of 137 cited documents; and transmittal document (in triplicate).

Mailed: June 16, 2000
Docket: 235.0017 0101

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Serial No.: 09/497,967
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